

IN THE CLAIMS

1. (Canceled)

2. (Currently amended) A system for transferring discrete electrical signals between one or more transmitters and receivers, the system comprising:

a two-wire communication line including a first wire and a second wire;

a power voltage supply including a first pole and a second pole;

wherein the first pole of the power supply and the first wire of the communication line are grounded;

the second wire of the communication line is connected to the second pole of the power supply via a first resistor; and

the first wire of the communication line is grounded via a second resistor, the first and second resistors having the same resistance.

3. (Currently amended) A system according to claim 1, wherein the first pole of the power supply and the first wire of the communication line are grounded to a floating ground.

4. (Currently amended) A method for transferring discrete electrical signals between one or more transmitters and receivers; the method comprising the steps of:

providing the system of claim 2;

transmitting by the one or more transmitters a logic signal generated by an electric key through the communication line;

receiving by the one or more receivers the logic signal transmitted through the communication line; and

wherein the transmitting and the receiving steps are performed using the second wire of the communication line.

5. (Previously presented) A method according to claim 3, wherein the receiving step includes measuring a voltage value of the second wire with respect to the first wire.

6. (Previously presented)) A method according to claim 3, wherein the logic signal is a binary-code.